



# 4CH H.264 Real-time Network Video Encoder

# **Key Features**

- Full frame H.264 transmission for each 4 channels
- Dual streams of H.264 (High profile) and JPEG at VGA / D1 image size
- Motion adaptive interlace/progressive conversion allows every frame to be clear even when the subject is moving.
- Compensates the picture degration caused by long-distance cable maintaining clear picture
- Coaxial communication ensures the control of Panasonic PTZ cameras via coaxial cable.
- Open command conversion table for RS-485 ensures the control of various manufacture's PTZ camera.
- SD/SDHC Memory card slot for manual recording, alarm recording, and backup upon network failure (JPEG)
- Camera title display: Up to 16 alphanumeric characters embedded in the image
- Full duplex bi-directional audio allows interactive communication.
- PoE. The power will be supplied by simply connecting a LAN cable. (IEEE802.3af compliant)
- Small size. And can be installed into the rack with mounting brackets. (Option)
- Alarm sources including 3 terminal input, VMD, camera site alarm, video loss, and Panasonic alarm
- VMD (Video Motion Detector) with 4 programmable detection areas
- Face detection detect the position of human face, the information is sent by XML or video stream. (Ch1 only)
- Meta data for VMD is supplied to work with the WJ-ND400 playback VMD function.

- Internet mode: H.264/MPEG-4 images can be transmitted by over HTTP protocol.
- Multi-language GUI and setup menu: English, French, Italian, Spanish, German, Russian (PAL) / English, French (NTSC)
   Installation required except for English
- IPv4/IPv6 protocol supported

#### **Standard Accessories**

- CD-ROM\*1 ... 1 pc.
   Installation Guide ... 1 pc.
   Code Label\*2 ... 1 pc.
- \*1 The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software programs.
- \*2 This label may be required for network management. The network administrator shall retain the code label.

#### **Optional Accessory**

EIA 48.26 cm (19 inch) Rack Mount Bracket

WV-Q204/2S
(for mounting three WJ-GXE500)

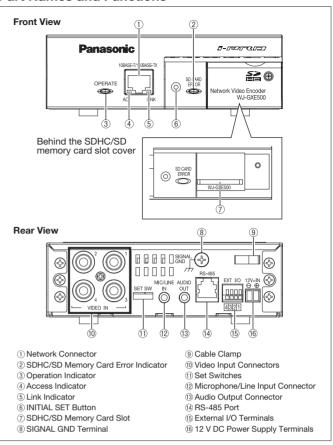
Joint bracket

# Specifications

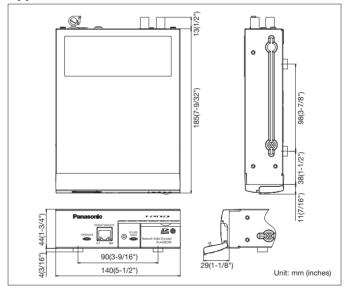
TV Systen	n		NTSC	PAL
Audio/	Video Ir	nput	4x 1.0 V [p-p] / 75 Ω NTSC	4x 1.0 V [p-p] / 75 Ω PAL
Video IF			composite video inputs (BNC)	composite video inputs (BN
			Multiplexed control data and cable	Multiplexed control data and cab
Browser			compensation compatible: 1 ~ 4 CH	compensation compatible: 1 ~ 4
	Microphone/Line Input  Audio Output		MIC IN and Line IN are selectab	ole. ø3.5 mm stereo mini jack
			(monaural input) (Applicable microphone: Plug-in power type	
			Supply voltage: 2.5 V ±0.5 V Ir	nput impedance: approx. 2 kg
			ø3.5 mm stereo mini jack (monaural output) Line level	
	Camera Control		Pan / tilt / zoom / focus / preset positions / auto focus	
GUI			(When using Panasonic P/T/Z cameras)	
	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4	
			different Quad screens (JPEG only). 20 characters camera title availab	
	Unit Title		Up to 20 characters	
	Camera Title (OSD)		Up to 16 characters On/Off	
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manu	
	Alarm Control		Reset	
	One Shot Capture		A still picture will be displayed on a newly opened window.	
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / Hig	
			Audio Output: ON / OFF Volume adjustment: Low/Middle/Hi	
	SD Memory Data Download			
	GUI/Setup Menu		English, French	English, French, Italian,
	Language		(Installation required for French)	Spanish, German, Russian
				(Installation required except for Engl
	System Log		Up to 100 (Internal), Up to 4,000	· · · · · · · · · · · · · · · · · · ·
			recording format is set to JPEG.) error logs	
	Supported OS		Microsoft® Windows® 7 Professional 64 bit/32 bit,	
			Microsoft® Windows Vista® Business SP1 32 bit,	
			Microsoft® Windows® XP Professional SP3	
			The language of the OS must be	same as selected GUI langua
	Supported Browser  Network IF		Windows® Internet Explorer® 8.0 32 bi	t (Microsoft® Windows® 7 64 bit/32
			Windows® Internet Explorer® 7.0 (Microsoft® Windows Vista® Business SP1 32	
			Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® Windows® XP Professional S	
Network			10Base-T / 100Base-TX, RJ-45	connector
	Image Resolution		VGA mode: VGA (640 x 480) /	VGA mode: VGA (640 x 480)
			QVGA (320 x 240)	QVGA (320 x 240)
			D1 mode: D1 (720 x 480)	D1 mode: D1 (720 x 576)
	H.264/	Transmission Mode	Constant bitrate / Framerate pri	ority
	MPEG-4*	Frame Rate	1/3/5/7.5/10/15/20/	1/3.1/4.2/6.25/8.3/12.
			30 fps	20 / 25 fps
		Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,5	536 / 2,048 / 3,072 / 4,096 kbps / Unlim
		Image Quality	Low / Normal / Fine	
			0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5	s
		Transmission Type	UNICAST / MULTICAST	
	JPEG	Image Quality	10 steps	
		Refresh Interval	0.1 fps ~ 30 fps	0.08 fps ~ 25 fps
			(JPEG frame rate will be restricted	(JPEG frame rate will be restrict
			when displaying both JPEG	when displaying both JPEG
			and H.264/MPEG-4 images.)	and H.264/MPEG-4 images.
		Transmission Type	PULL / PUSH	
	Audio Compression		G.726 (ADPCM), 32 kbps / 16 kbps, CH1 only.	
	Audio Mode		OFF / Mic (Line) input / Audio output / Interactive (Half duple	
			Interactive (Full duplex)	
	Authentification for Audio		Level 1 only / Level 2 higher / All users	
	Total Bit Rate		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimi	
	Total Bi	it Rate	64 / 128 / 256 / 384 / 512 / 768 / 1.024	
				/ 2,048 / 4,096 / 8,192 kbps / Unlimi
		it Rate ted Protocol	IPv6: TCP/IP, UDP/IP, HTTP, RTI	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI
				/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP,
		ted Protocol	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, R	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP
	Suppor	ted Protocol	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, R' SMTP, DHCP, DNS, DDNS, NTI	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI ISP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss
	Suppor	ted Protocol	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, R' SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI ISP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available
	Suppor	ent imultaneous Users	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, R' SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on ne	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions)
	Suppor	ent imultaneous Users SD Memory	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, R' SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or
	Suppor	ent imultaneous Users SD Memory	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, R' SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on ne' Alarm REC / Backup upon networi	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G
	Suppor	ent imultaneous Users SD Memory	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RT SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon networ Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card
Alarm	Suppor	ent imultaneous Users SD Memory pption) etection	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, R' SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon networl Compatible SD (SDHC) card: Pa	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) x failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only)
Alarm	Suppor	ent imultaneous Users SD Memory pption) etection Source	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RT SMTP, DHCP, DNS, DDNS, NT Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon networl Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification)	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ala
Alarm	Suppor  FTP Cli  No. of S SDHC/S Card (C  Face Di Alarm S	ent imultaneous Users SD Memory pption) etection Source	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RT SMTP, DHCP, DNS, DDNS, TNS, Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon networt Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alarn	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss als il notification, Alarm terminal outs
Alarm	Suppor  FTP Cli  No. of S SDHC/S Card (C  Face Di Alarm S	ent imultaneous Users SD Memory option) etection Source Action	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RT SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon networt Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alarn SDHC/SD memory recording, E-ma	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ala il notification, Alarm terminal outpransfer, Panasonic protocol outp
	Suppor  FTP Cli  No. of S SDHC/3 Card (C  Face Di Alarm S Alarm A	ent imultaneous Users SD Memory Option) etection Source Action	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon networl Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alar SDHC/SD memory recording, E-ma Indication on browser, FTP image to	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ala il notification, Alarm terminal out; ransfer, Panasonic protocol outp without SDHC/SD memory card: 1,000
Input/	Suppor  FTP Cli  No. of S SDHC/S Card (C  Face Do Alarm S Alarm A	ent imultaneous Users SD Memory Option) etection Source Action	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RT SMTP, DHCP, DNS, DDNS, NT Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon networl compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alar SDHC/SD memory recording, E-ma Indication on browser, FTP image t With SDHC/SD memory card: 5,000 logs, v	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) & failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ala il notification, Alarm terminal outgransfer, Panasonic protocol outp without SDHC/SD memory card: 1,000 al 2: Alarm input/Alarm outpu
Input/	Suppor  FTP Cli  No. of S SDHC/S Card (C  Face Do Alarm S Alarm A	ent imultaneous Users SD Memory pption) etection Source Action	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RT SMTP, DHCP, DNS, DDNS, NT Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on nei Alarm REC / Backup upon networl Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alar SDHC/SD memory recording, E-ma Indication on browser, FTP image tu With SDHC/SD memory card: 5,000 logs, Terminal 1: Alarm input, Termin	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss als il notification, Alarm terminal outpansfer, Panasonic protocol outp without SDHC/SD memory card: 1,000 al 2: Alarm input/Alarm outpu utput/AUX output
Input/	Suppor  FTP Cli  No. of S SDHC/3 Card (C  Face Do  Alarm S  Alarm A	ent imultaneous Users SD Memory pption) etection Source Action	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RT IPv4: TCP/IP, UDP/IP, HTTP, R' SMTP, DHCP, DNS, DDNS, TNS, DNS, TNS, DNS, TNS, Sailed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon networt Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alar SDHC/SD memory recording, E-ma Indication on browser, FTP image tu With SDHC/SD memory card: 5,000 logs, Terminal 1: Alarm input, Termin Terminal 3: Alarm input, Termin	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP Transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ala il notification, Alarm terminal out ransfer, Panasonic protocol outp without SDHC/SD memory card: 1,000 at 2: Alarm input/Alarm outpu urtput/AUX output re, Full/Half duplex.
Input/ Output	Suppor  FTP Cli  No. of S SDHC/S Card (C)  Face Di Alarm S Alarm A  Termina  RS-485	ent imultaneous Users SD Memory option) etection source Action .og al	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RT SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net- Alarm REC / Backup upon networl Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alar SDHC/SD memory recording, E-ma Indication on browser, FTP image to With SDHC/SD memory card: 5,000 logs, varied in the superior of the su	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ala il notification, Alarm terminal outpransfer, Panasonic protocol outp without SDHC/SD memory card: 1,000 al 2: Alarm input/Alarm output utput/AUX output re, Full/Half duplex. r other manufacturers' PTZ came
Input/ Output	Suppor  FTP Cli  No. of S SDHC/S Card (C)  Face Di Alarm S Alarm A  Termina  RS-485	ent imultaneous Users SD Memory pption) etection Source Action	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon networl Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alar SDHC/SD memory recording, E-ma Indication on browser, FTP image to With SDHC/SD memory card: 5,000 logs. Terminal 1: Alarm input, Terminal 1: Alarm input, Terminal 3: Alarm input/Alarm o 1x RS-485 (RJ-11, 4 wire / 2 wi	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) & failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ali il notification, Alarm terminal outp virthout SDHC/SD memory card: 1,000 al 2: Alarm input/Alarm output utput/AUX output rother manufacturers' PTZ came CE (EN55022, ClassB,
Input/ Output	Suppor  FTP Cli  No. of S SDHC/S Card (C)  Face Di Alarm S Alarm A  Termina  RS-485	ent imultaneous Users SD Memory option) etection source Action .og al	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI SMTP, DHCP, DNS, DDNS, NT Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on nei Alarm REC / Backup upon networt Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alarn SDHC/SD memory recording, E-ma Indication on browser, FTP image tu With SDHC/SD memory card: 5,000 logs. Terminal 1: Alarm input, Termin Terminal 3: Alarm input/Alarm of 1x RS-485 (RJ-11, 4 wire / 2 bit Depen command conversion table for UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065),	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) & failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ali il notification, Alarm terminal outp virthout SDHC/SD memory card: 1,000 al 2: Alarm input/Alarm output utput/AUX output rother manufacturers' PTZ came CE (EN55022, ClassB,
Input/ Output	Suppor  FTP Cli  No. of S SDHC/S Card (C  Face D Alarm S Alarm L  Termina  RS-485  Safety/l	ent imultaneous Users SD Memory option) etection Source Action .og al is Port EMC Standard	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon networl Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alar SDHC/SD memory recording, E-ma Indication on browser, FTP image to With SDHC/SD memory card: 5,000 logs, With SDHC/SD memory card: 5,000 logs, Terminal 1: Alarm input, Termin Terminal 3: Alarm input, Alarm 1x RS-485 (RJ-11, 4 wire / 2 wi Open command conversion table fo UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA)	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ala il notification, Alarm terminal out; ransfer, Panasonic protocol outp without SDHC/SD memory card: 1,000 al 2: Alarm input/Alarm output utput/AUX output r other manufacturers' PTZ came CE (EN55022, ClassB,
Alarm Input/ Output General	Suppor  FTP Cli  No. of S SDHC/3 Card (C)  Face De Alarm S Alarm A  Alarm L  Termina  RS-485  Safety/I	ent imultaneous Users SD Memory option) etection source Action .og al is Port EMC Standard Source and	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI SMTP, DHCP, DNS, DDNS, NTI Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on nei Alarm REC / Backup upon networl Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alar SDHC/SD memory recording, E-ma Indication on browser, FTP image to With SDHC/SD memory card: 5,000 logs, in Terminal 1: Alarm input, Terminal Terminal 3: Alarm input/Alarm or 1x RS-485 (RJ-11, 4 wire / 2 wii Open command conversion table for UL (UL60066), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA) 12 V DC: 500 mA,	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP P transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) m, Camera site alarm, Video loss ala il notification, Alarm terminal outpransfer, Panasonic protocol outp without SDHC/SD memory card: 1,000 al 2: Alarm input/Alarm output utput/AUX output re, Full/Half duplex. r other manufacturers' PTZ came CE (EN55022, ClassB, EN55024)
Input/ Output	Suppor  FTP Cli  No. of S SDHC/s Card (C)  Face Do Alarm S Alarm A  Alarm L  Termina  RS-485  Safety/li  Power S Power 6	ent imultaneous Users SD Memory Option) etection Source Action Log al Fort EMC Standard Source and Consumption	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RT SMTP, DHCP, DNS, DDNS, NT Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon networl compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alar Indication on browser, FTP image to With SDHC/SD memory card: 5,000 logs, 17 Terminal 1: Alarm input, Termin Terminal 3: Alarm input, Termin Terminal 3: Alarm input/Alarm of VR SS-485 (RJ-11, 4 wire / 2 wir Open command conversion table fo UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DUC (CICS003 ClassA) 12 V DC: 500 mA, PoE (IEEE802.3af): 6 W (Class C	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP transfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ala in otification, Alarm terminal outp viithout SDHC/SD memory card: 1,000 al 2: Alarm input/Alarm output utput/AUX output re, Full/Half duplex. or other manufacturers' PTZ came (CE (EN55022, ClassB, EN55024)
Input/ Output	Suppor  FTP Cli  No. of S SDHC/3 Card (C)  Face Do Alarm S Alarm A  Alarm L  Termina  RS-485  Safety/I  Power S Power C  Ambient C	ent imultaneous Users SD Memory Option) etection Source Action .og al is Port EMC Standard Source and Consumption Operating Temperature	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI SMTP, DHCP, DNS, DDNS, NT Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on nei Alarm REC / Backup upon networl Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alarn SDHC/SD memory recording, E-mail Indication on browser, FTP image to With SDHC/SD memory card: 5,000 logs, 10 Terminal 1: Alarm input, Termin Terminal 3: Alarm input/Alarm of Terminal 3: Alarm input/Alarm of Terminal 3: Alarm input/Alarm of Usen command conversion table fo UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA) 12 V DC: 500 mA, PoE (IEEE802.3af): 6 W (Class C -10 °C ~ +50 °C (14 °F ~ 122 °F	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP Itransfer (When the FTP transmiss HC/SD memory card is available twork conditions) k failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss als il notification, Alarm terminal out; ransfer, Panasonic protocol outp without SDHC/SD memory card: 1,000 al 2: Alarm input/Alarm output utput/AUX output re, Full/Half duplex. r other manufacturers' PTZ came (CE (EN55022, ClassB, EN55024) device)
Input/ Output	Suppor  FTP Cli  No. of S SDHC/3 Card (C)  Face Do Alarm S Alarm A  Alarm L  Termina  RS-485  Safety/I  Power S Power C  Ambient C	ent imultaneous Users SD Memory option) etection Source Action .og al is Port EMC Standard Source and Consumption Operating Temperature Operating Humidity	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on net Alarm REC / Backup upon network Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alar SDHC/SD memory recording, E-ma Indication on browser, FTP image to With SDHC/SD memory card: 5,000 logs, Terminal 1: Alarm input, Terminal 1: Ala	/ 2,048 / 4,096 / 8,192 kbps / Unlimir P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTP/RTCP, FTP, P, SNMP I transfer (When the FTP transmiss HC/SD memory card is available twork conditions) K failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ala II notification, Alarm terminal out; ransfer, Panasonic protocol outp without SDHC/SD memory card: 1,000 la 12: Alarm input/Alarm outpu utput/AUX output re, Full/Half duplex. r other manufacturers' PTZ came CE (EN55022, ClassB, EN55024)  1) device) 1)
Input/ Output	Suppor  FTP Cli  No. of S SDHC/S Card (C)  Face D Alarm S Alarm A  Safety/I  Power S Power C Ambient C	ent imultaneous Users SD Memory option) etection Source Action .og al is Port EMC Standard Source and Consumption Operating Temperature Operating Humidity	IPv6: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI IPv4: TCP/IP, UDP/IP, HTTP, RTI SMTP, DHCP, DNS, DDNS, NT Periodic image transfer, Alarm image is failed, backup on an optional SD Up to 14 users (Depends on nei Alarm REC / Backup upon networl Compatible SD (SDHC) card: Pa 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 On / Off (with XML notification) 3 terminal input, VMD, Command alarn SDHC/SD memory recording, E-mail Indication on browser, FTP image to With SDHC/SD memory card: 5,000 logs, 10 Terminal 1: Alarm input, Termin Terminal 3: Alarm input/Alarm of Terminal 3: Alarm input/Alarm of Terminal 3: Alarm input/Alarm of Usen command conversion table fo UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA) 12 V DC: 500 mA, PoE (IEEE802.3af): 6 W (Class C -10 °C ~ +50 °C (14 °F ~ 122 °F	/ 2,048 / 4,096 / 8,192 kbps / Unlimi P, FTP, SMTP, DNS, NTP, SNI TSP, RTP, RTPP, TCP, FTP, P, SNMP P transfer (When the FTP transmiss HC/SD memory card is available twork conditions) f failure / Manual REC (JPEG or nasonic 256 MB, 512 MB, 1 G GB* model * SDHC card (Ch1 only) n, Camera site alarm, Video loss ala il notification, Alarm terminal outpransfer, Panasonic protocol outp without SDHC/SD memory card: 1,000 at 2: Alarm input/Alarm output utput/AUX output re, Full/Half duplex. r other manufacturers' PTZ came CE (EN55022, ClassB, EN55024)  D device) D device) Thin (D) (5-1/2" x 1-3/4" x 7-9/3)

#### \* H.264 and MPEG-4 are alternative

# **Part Names and Functions**



# **Appearance**



### Trademarks and registered trademarks

- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
   "Super Dynamic", "SDII", "SDIII", "SD5", "SD5Link", "i-PRO" and "i-PRO SmartHD" logos are
- trademarks or registered trademarks of Panasonic Corporation.

- Safety Precaution: carefully read the operating instructions and installation manual before using this product.
- Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.
  - · All TV pictures are simulated.
  - Masses and dimensions are approximate.

  - Specifications are subject to change without notice.
     These products may be subject to export control regulations.
  - All product pictures are NTSC models.

#### **DISTRIBUTED BY:**

